

CLAIMS

What is claimed is:

1. A cooling device for an electric motor; comprising:
a carrier constructed for attachment on a motor part;
at least one cooling element; and
fastening means for securing the cooling element to the carrier, said fastening means including a spacer element having an attachment surface constructed for placement upon the motor part and defined by a predefined vertical dimension normal to the attachment surface.
2. The cooling device of claim 1, wherein the spacer element traverses the carrier so that the vertical dimension of the spacer element solely defines an added height or diameter of the motor part, when the cooling device is attached to the motor part.
3. The cooling device of claim 1, wherein the cooling part is routed through the spacer element.
4. The cooling device of claim 1, wherein the fastening means includes a fastener for securing the spacer element to the carrier at an end distal to the attachment surface.

5. The cooling device of claim 4, wherein the fastener is a nut.
6. The cooling device of claim 4, wherein the fastener is a member selected from the group consisting of retainer ring and cotter pin.
7. The cooling device of claim 1, wherein the cooling element is a serpentine cooling tube which is inserted in a slot of the spacer element and has an attachment-surface-proximal zone which is form-fittingly received in the slot.
8. A primary part of an electric rotary motor or linear motor, comprising a cooling device of claim 1.
9. An electric motor, comprising a primary part, and a cooling device connected to the primary part, wherein the cooling device includes a carrier constructed for attachment to the primary part, at least one cooling element, and fastening means for securing the cooling element to the carrier, said fastening means including a spacer element having an attachment surface constructed for placement upon the primary part and defined by a predefined vertical dimension normal to the attachment surface.
10. The motor of claim 9, constructed as rotary motor.
11. The motor of claim 9, constructed as linear motor.

12. The motor of claim 10, wherein the cooling device is configured in the form of bent segments which are placed about an outer perimeter of the primary part.